

**Commonwealth of Kentucky  
Division for Air Quality**

**PERMIT APPLICATION SUMMARY FORM**

Completed by:  
Frough Shewani P.E.

GENERAL INFORMATION:

Name: Publishers Printing Company-Lebanon Junction Facility  
Address: 13487 South Preston Highway  
Lebanon Junction, KY 40150  
Date application received: January 07, 2005  
SIC/Source description: 2721/Periodicals: Publishing, or Publishing and printing  
AFS (10-digit) Plant ID: 21-029-00032  
AI #: 470  
Activity #: APE20050001  
Permit number: V-05-014

APPLICATION TYPE/PERMIT ACTIVITY:

<input type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input type="checkbox"/> Permit modification	<input type="checkbox"/> Conditional major
<input type="checkbox"/> Administrative	<input checked="" type="checkbox"/> Title V
<input type="checkbox"/> Minor	<input checked="" type="checkbox"/> Synthetic minor
<input type="checkbox"/> Significant	<input type="checkbox"/> Operating
<input checked="" type="checkbox"/> Permit renewal	<input checked="" type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input checked="" type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input checked="" type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input type="checkbox"/> Not a major modification per 401 KAR 51:017, 1(23)(b) or 51:052 1(14)(b)	

MISCELLANEOUS:

☐ Acid rain source  
☐ Source subject to 112(r)  
☐ Source applied for federally enforceable emissions cap  
☐ Source provided terms for alternative operating scenarios  
☐ Source subject to a MACT standard  
☐ Source requested case-by-case 112(g) or (j) determination  
☐ Application proposes new control technology  
☒ Certified by responsible official  
☒ Diagrams or drawings included  
☐ Confidential business information (CBI) submitted in application  
☐ Pollution Prevention Measures  
☒ Area is non-attainment (list pollutants): Ozone and PM 2.5

EMISSIONS SUMMARY:

**Existing Facility:**

<b>POLLUTANT</b>	<b>POTENTIAL EMISSIONS (TPY)</b>	<b>ALLOWABLE EMISSION (TPY)</b>
Carbon Monoxide (CO)	19.53	NA
Nitrogen Oxides (NO <sub>x</sub> )	23.25	NA
Sulfur Dioxide (SO <sub>2</sub> )	0.14	NA
Particulate Matter (PM/PM <sub>10</sub> )	1.752	NA
EP 07 (Press 411)	16.35	20.0*
EP 08 (Press 409)	9.8	36.0**
EP 09 (Press 410)	14.91	20.0***
VOC (The rest of the source)	112.68	No allowable was established
Cumene	0.338	NA
Ethylene Glycol	26.05	NA
Naphthalene	47.28	NA
Xylene	0.184	NA
Combined HAPs	73.85	NA

\* VOC emission shall not equal or exceed 20 tons/year based on a 12 month rolling total to preclude the applicability of 401 KAR 51:017, Prevention of significant deterioration of air quality.

\*\* VOC emission shall not equal or exceed 36 tons/year based on a 12 month rolling total to preclude the applicability of 401 KAR 51:017, Prevention of significant deterioration of air quality.

\*\*\* VOC emission shall not equal or exceed 20 tons/year based on a 12 month rolling total to preclude the applicability of 401 KAR 51:017, Prevention of significant deterioration of air quality.

**Emission from New Construction EP 13(Press 416):**

<b>POLLUTANT</b>	<b>POTENTIAL EMISSIONS (TPY)</b>	<b>ALLOWABLE EMISSION (TPY)</b>
Carbon Monoxide (CO)	1.472	NA
Nitrogen Oxides (NO <sub>x</sub> )	1.752	NA
Sulfur Dioxide (SO <sub>2</sub> )	0.0105	NA
Particulate Matter (PM/PM <sub>10</sub> )	0.133	NA
VOC	9.75	10.0****
Ethylene Glycol	0.408	NA
HAP	0.408	NA

\*\*\*\* VOC emission shall not equal or exceed 10.0 tons/year based on a 12 month rolling total to preclude the applicability of 401 KAR 51:052, Review of new sources in or impacting upon non attainment areas

**Resulting Source Wide (including new construction):**

<b>POLLUTANT</b>	<b>POTENTIAL EMISSIONS (TPY)</b>	<b>ALLOWABLE EMISSION (TPY)</b>
Carbon Monoxide (CO)	21.0	NA
Nitrogen Oxides (NOx)	25.00	NA
Sulfur Dioxide (SO <sub>2</sub> )	0.15	NA
Particulate Matter (PM/PM <sub>10</sub> )	1.885	NA
EP 07 (Press 411)	16.35	20.0*
EP 08 (Press 409)	9.8	36.0**
EP 09 (Press 410)	14.91	20.0***
EP 13 (Press 416)	9.75	10.0****
VOC (The rest of the source)	112.68	No allowable was established
Cumene	0.34	NA
Ethylene Glycol	26.46	NA
Naphthalene	47.29	NA
Xylene	0.184	NA
Combined HAPs	74.42	NA

**TOXIC ANALYSIS:**

<b>Toxics</b>	<b>PTE CONC. UG/M**3</b>	<b>PRG#/PDRV UG/M**3</b>	<b>PTE CONC.&lt;PRG#/ PDRV</b>
Xylene	0.456	730	YES
Ethylene Glycol	65.6	7300	YES

#### SOURCE PROCESS DESCRIPTION:

Publishers Printing Company is an offset lithographic paper printing plant which prints magazines. Printing takes place on 14 existing offset lithographic presses each with a natural gas fired dryer and propane as a back up fuel. The source is proposing to add one press EP # 13 (Press 416) and removed two presses (Press 408 and 413) with the renewal of their Title V permit (V-99-033 Revision 2). Overall, the source will have a total 13 presses. Insignificant activities consist of a 30,000 gallon propane tank, five natural gas/propane space heaters, six chillers with cooling towers, five ink jet head cleaning stations, five hot melt magazine binding gluers, maintenance activities of the presses which consist of surface preparation for maintenance painting and a maintenance paint spray booth, a scrap paper collection system, two natural gas fired boilers with propane as backup and a cold solvent cleaner using mineral spirits as the cleaning agent.